

line 16, ~~change~~ "122 are" to --122 is--;

line 20, ~~change~~ "these" to --this--.

Page 36, ~~line~~ 7, before "Japan" insert --the--;

line 8, ~~change~~ "other" to --another--;

line 9, ~~delete~~ "of";

line 15, ~~change~~ "route" to --routes--;

line 16, ~~after~~ "like are" insert --periodically and frequently--;

line 18, ~~delete~~ "every seconds" and change "these" to --this--.

Page 37, ~~line~~ 1, before "the" insert --or--.

Page 39, ~~line~~ 2, before "following" insert --the--;

line 5, ~~change~~ "sources.," to --sources,--;

line 9, ~~change~~ "APEC" to --APREC--.

**IN THE CLAIMS**

Please amend claims 1-4, 6, 9, and 14-17, and add new claims 19-31 as set forth below.

1. (Amended) An energy and power interchange system comprising a system including energy generating means which generates transmittable energy using an energy source, an energy path which transmits energy generated by said energy

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generating means across a border between two foreign countries, at least one of which produces its entire demand for electricity including transient electrical power, [a] measuring equipment which is mounted on said energy path for measuring an amount of energy which is transmitted through said energy path, and a system which consumes energy supplied by way of said energy path, the improvement being characterized in that said energy sources used by said energy generating means and said generated energy amount are controlled in response to said energy amount measured by said measuring equipment, and in that energy is transmitted from one of said two foreign countries to the other of said two foreign countries in response to a requirement of said other of said two foreign countries.

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2. (Amended) An energy and power interchange system comprising a first system including power generating facilities, a second system in a country foreign [countries] to the country of said first system constructed by a direct current transmission system which interconnects said first system and said second system, and [a] measuring equipment which is mounted on [said] an energy path of said direct current transmission system and measures an energy amount transmitted through said energy path across a border between said countries, wherein at least one of said countries produces its entire demand for electricity including transient

electrical power, the improvement being characterized in that control parameters of said first and second systems are changed or said transmitting direction of energy is decided in response to said energy amount measured by said measuring equipment, and in that energy is transmitted from one of said countries to the other of said countries in response to a requirement of said other of said countries.

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3. (Amended) An energy and power interchange system comprising an energy path constituted by a direct current transmission system which interconnects systems of at least three different countries having power generating facilities and [a] measuring equipment which is mounted on said energy path and measures an energy amount transmitted through said energy path across a border between two of said countries, at least one of which produces its entire demand for electricity including transient electrical power, the improvement being characterized in that control parameters of said systems of said at least three countries are changed or transmitting direction of energy is decided in response to said energy amount measured by said measuring equipment, and in that energy is transmitted from one of said countries to another of said countries in response to a requirement of said another of said countries.

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4. (Amended) An energy and power interchange system according to claim 2, wherein said energy and power interchange system includes [an] interconnection adjustment equipment which transmits converted values to respective systems in response to information measured by said measuring equipment, wherein said converted values are converted values of expenses including energy generating expense and energy transmission expense [or converted values of environmental load including generated carbon oxide gas].

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6. (Amended) An energy and power interchange system according to claim 2, wherein said energy path is disposed along [other energy] a transport route of another kind of energy, and is installed such that said energy path is [directly secured to said other transport route or secured to said other energy transport route while sharing a same support structure with] supported in common with said [other] transport route [or said energy path is installed at a point higher than 1000 meters below the sea level].

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9. (Amended) An energy and power interchange system according to claim 2, wherein the [above-mentioned respective] first and second systems are located at respective countries which differ in circulating currency, and [they] said system further includes means for converting currency to [the] a preliminarily decided currency unit [or carry out such a

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Cont. conversion] based on information on exchange rate [or said respective systems are located in countries which differ in languages and said information is transmitted by way of translating machines].

14. (Amended) An energy and power interchange system according to claim 13, wherein said information includes one of information on said system, [or] information to which time information detected by a transmission time difference detector for detecting time difference for information transmission is added, [or] said interchanged electric energy, restriction on said interchanged electric energy, [or] and operation information on a direct current power transmission system.

a4 15. (Amended) An energy and power interchange system according to claim 5, wherein [a consideration to] said interchange administration equipment carries out said settlement, conclusion of contract or interchange control by [said interchange administration equipment may be] considering at least one of CO<sub>2</sub> emission right which concerns with CO<sub>2</sub> emission utilities, fuel, electrical energy [or] and money.

16. (Amended) An energy and power interchange system according to claim 2, wherein said energy and power interchange system is provided with a power interchange

control equipment [and such a power interchange control equipment] that decides operating conditions of said generator[, or operating condition of] and said power storage equipment;[, or] interchanged electrical energy between said alternating current systems using at least one of interchangeable electrical energy, electrical energy, load of respective alternating current systems, generated energy, emergency power source [or] and an interchange power command value is decided using at least one of demand information, power generating information, exchange rate information, power generating cost information and power transmission information;[, or using at least one of power cost, power generating and transmission cost, CO<sub>2</sub> emission amount, load balancing index, demand and supply balance index, or power supply and a reliability index of respective countries or regions or every hours or every seasons is formed as an object function;[, and an interchanging power command value is decided based on calculation result of a calculation processing equipment which executes an optimization calculation.

17. (Amended) An energy and power interchange method characterized in that a first system which is provided with power generating facilities and a second system in a foreign country which is provided with power generating facilities are interconnected by an energy path constituted by a direct

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current power transmission system, [and] transmitting energy is measured by [a] measuring equipment mounted on said energy path, and control parameters of one of said first system [or] and said second system are changed [or] and energy transmitting direction is decided in response to energy amount measured by the measuring equipment.

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--19. An energy and power interchange system according to claim 2, wherein said energy and power interchange system includes interconnection adjustment equipment which transmits converted values to respective systems in response to information measured by said measuring equipment, and wherein said converted values are converted values of environmental load including generated carbon oxide gas.

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--20. An energy and power interchange system according to claim 2, wherein said energy path is disposed along a transport route of a different kind of energy, and is installed such that said energy path is installed under water at a point higher than 1000 meters below sea level.

--21. An energy and power interchange system according to claim 2, wherein the first and second systems are located at respective countries which differ in language, and said system further includes means for translating information transmitted between the first and second systems.

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--22. An energy and power interchange system according to claim 2, wherein said energy and power interchange system is provided with a power interchange control equipment that decides operating conditions of said generator and said power storage equipment; interchanged electrical energy between said alternating current systems using at least one of power cost, power generating and transmission cost, CO<sub>2</sub> emission amount, load balancing index, demand and supply balance index, and power supply; one of a regional reliability index, time zone, and climate is formed as an object function; and an interchanging power command value is decided based on calculation result of a calculation processing equipment which executes an optimization calculation.

--23. An energy and power interchange system according to claim 1, wherein energy is transmitted through said energy path across the equator.

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--24. An energy and power interchange system according to claim 1, wherein said energy path transmits energy so as to link Pacific Rim countries for transmission of energy thereamong.



--25. An energy and power interchange system according to claim 24, wherein said energy path linking said Pacific Rim countries forms a transmission ring surrounding the Pacific Ocean.

--26. An energy and power interchange system according to claim 2, wherein energy is transmitted through said energy path across the equator.

--27. An energy and power interchange system according to claim 2, wherein said energy path transmits energy so as to link Pacific Rim countries for transmission of energy thereamong.

--28. An energy and power interchange system according to claim 27, wherein said energy path linking said Pacific Rim countries forms a transmission ring surrounding the Pacific Ocean.

--29. An energy and power interchange system according to claim 3, wherein energy is transmitted through said energy path across the equator.

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--30. An energy and power interchange system according to claim 3, wherein said energy path transmits energy so as to link Pacific Rim countries for transmission of energy thereamong.

--31. An energy and power interchange system according to claim 30, wherein said energy path linking said Pacific Rim countries forms a transmission ring surrounding the Pacific Ocean.--

#### IN THE ABSTRACT

Please amend the abstract as set forth below.

Page 46, ~~line 1~~, after "realize" delete "the";  
line ~~6~~, after "operated" insert --,--;  
line ~~15~~, after "facilities" insert --,--.

#### REMARKS

The Applicants request reconsideration of the rejection. Upon entry of the foregoing amendments and new claims, claims 1-31 will be pending.

The Examiner objected to the drawings as lacking labels in Figs. 2-4, 6, and 11. A Request for Approval of Proposed Drawing Corrections accompanies this paper to address the Examiner's concerns.